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## **ABSTRACT**

A communications system includes a transmitter device, a receiver system, and a communications link. The communications link couples the transmitter device and the receiver system. The receiver system includes a receiver device and a processor. The transmitter device transmits a data signal. The receiver device receives the data signal from the communications link. The processor is electrically coupled to the receiver device to receive the data signal. The processor regenerates the data signal to compensate for the effects of the communications link on the data signal. Then, the processor outputs the regenerated data signal.